

Early life origins of lung ageing

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S-Table 4: Sensitivity analyses

Association between lung function decline and early life factors[‡], excluding

a) participants with reported childhood and b) adult asthma, c) COPD or d) >25 yrs. of age at first survey

Early life factors	Subjects reporting							
	a) childhood asthma excluded N=11717				b) adult asthma excluded N= 10933			
	Δ FEV ₁ /yr. †	95% CI	p-value		Δ FEV ₁ /yr. †	95% CI	p-value	
Season of birth: winter	-2.11	-3.38	-0.84	0.00	-1.88	-3.17	-0.59	0.00
Maternal age † (>31yrs.)	-1.89	-3.21	-0.56	0.01	-1.95	-3.29	-0.61	0.00
Maternal smoking	-1.45	-2.97	0.07	0.06	-1.52	-3.08	0.04	0.06
Paternal smoking	0.71	-0.45	1.87	0.23	0.67	-0.50	1.84	0.26
Severe respiratory infection	-0.37	-2.35	1.62	0.72	-0.19	-2.19	1.81	0.85
Urban living environment	0.14	-1.37	1.65	0.86	0.21	-1.32	1.74	0.79
Daycare attendance	4.39	3.16	5.62	0.00	4.49	3.24	5.74	0.00
Sharing bedroom	-0.57	-1.77	0.62	0.35	0.10	-1.11	1.31	0.87
Family pet (<5 yrs.)	1.02	-0.13	2.17	0.08	0.74	-0.43	1.91	0.21
Older siblings \geq 2	0.48	-1.08	2.04	0.54	-0.32	-1.92	1.29	0.70
Younger siblings <2	-2.23	-3.47	-0.98	0.00	-2.28	-3.54	-1.02	0.00

Early life factors	c) COPD § excluded N=11638				d) Subjects >25 yrs. old at first survey N= 10770			
	Δ FEV ₁ /yr.†	95% CI	p-value		Δ FEV ₁ /yr.†	95% CI	p-value	
Season of birth: winter	-2.00	-3.25	-0.74	0.00	-1.86	-3.19	-0.53	0.01
Maternal age † (>31yrs.)	-1.90	-3.20	-0.60	0.00	-1.35	-2.72	0.03	0.06
Maternal smoking	-2.07	-3.56	-0.58	0.01	-2.52	-4.13	-0.92	0.00
Paternal smoking	0.32	-0.81	1.46	0.58	0.50	-0.71	1.72	0.42
Severe respiratory infection	0.58	-1.30	2.46	0.55	-0.96	-2.92	1.01	0.34
Urban living environment	0.01	-1.47	1.48	0.99	-0.07	-1.66	1.52	0.93
Daycare attendance	4.43	3.22	5.63	0.00	3.78	2.48	5.07	0.00
Sharing bedroom	-0.63	-1.80	0.54	0.29	-1.15	-2.40	0.09	0.07
Family pet (< 5 yrs.)	0.91	-0.22	2.04	0.11	0.93	-0.27	2.13	0.13
Older siblings \geq 2	0.41	-1.13	1.95	0.60	1.19	-0.43	2.82	0.15
Younger siblings <2	-2.37	-3.59	-1.14	0.00	-2.24	-3.53	-0.95	0.00

† Δ FEV₁/yr. corresponds to change in FEV₁ (ml) by follow up year – a negative coefficient implies more rapid FEV₁ decline and a positive coefficient implies less rapid decline.